

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2006:631456 CAPLUS  
 DN 146:347333  
 TI Novel liquid-crystal materials with negative dielectric anisotropy for TV application  
 AU Bremer, Matthias; Klasen-Memmer, Melanic; Pauluth, Detlef; Tarumi, Kazuaki  
 CS Liquid Crystal Division, Merck KGaA, Darmstadt, D-64293, Germany  
 SO Journal of the Society for Information Display (2006), 14(6), 517-521  
 CODEN: JSIDE8; ISSN: 1071-0922  
 URL: <http://scitation.aip.org/getpdf/servlet/GetPDFServlet?filetype=pdf&id=JSIDE8000014000006000517000001&idtype=cvips>  
 PB Society for Information Display  
 DT Journal; (online computer file)  
 LA English  
 RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:371350 CAPLUS  
 DN 142:420229  
 TI Liquid crystal medium containing fluorinated indane compounds  
 IN Klasen-Memmer, Melanie; Lietzau, Lars; Bremer, Matthias  
 PA Merck Patent GmbH, Germany  
 SO PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037957	A1	20050428	WO 2004-EP10648	20040922
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AW, BH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1673418	A1	20060628	EP 2004-786989	20040922
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1867647	A	20061122	CN 2004-80030235	20040922
	JP 2007510010	T	20070419	JP 2006-534625	20040922
	DE 102004046103	A1	20050519	DE 2004-102004046103	20040923
	KR 2007017967	A	20070213	KR 2006-707198	20060414
	US 2007080324	A1	20070412	US 2006-575969	20060414
PRAI	DE 2003-10349148	A	20031017		
	WO 2004-EP10648	W	20040922		

OS MARPAT 142:420229  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2005:31730 CAPLUS  
 DN 142:306352  
 TI 1,1,6,7-Tetrafluoroindanes: improved liquid crystals for LCD-TV application

AU Bremer, Matthias; Lietzau, Lars  
 CS Division of Liquid Crystals, R&D Chemistry Section, Merck KGaA, Darmstadt,  
 D-64271, Germany  
 SO New Journal of Chemistry (2005), 29(1), 72-74  
 CODEN: NJCHE5; ISSN: 1144-0546  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2003:791393 CAPLUS  
 DN 139:314577  
 TI Fluorinated indenenes and 1,7-dihydroindacenes having negative dielectric  
 anisotropy for use in liquid crystal media  
 IN Leitzau, Lars; Klasen-Memmer, Melanie; Bremer, Matthias  
 PA Merck Patent G.m.b.H., Germany  
 SO Eur. Pat. Appl., 23 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1350780	A1	20031008	EP 2003-4926	20030307
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10214938	A1	20031016	DE 2002-10214938	20020404
	US 2003222243	A1	20031204	US 2003-406569	20030404
	US 7182885	B2	20070227		
	JP 2004155755	A	20040603	JP 2003-101050	20030404
PRAI	DE 2002-10214938	A	20020404		
OS	MARPAT 139:314577				

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2003:74059 CAPLUS  
 DN 138:145162  
 TI Indane compound with negative dielectric anisotropy for VA (vertical  
 align) type liquid crystal display  
 IN Bremer, Matthias; Heckmeier, Michael; Reiffenrath, Volker  
 PA Merck Patent GmbH, Germany  
 SO Ger. Offen., 20 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10135499	A1	20030130	DE 2001-10135499	20010720
	TW 243810	B	20051121	TW 2002-91116042	20020718
	WO 2003010120	A1	20030206	WO 2002-EP8085	20020719
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,				

	CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
AU 2002331274	A1	20030217	AU 2002-331274 20020719
EP 1409441	A1	20040421	EP 2002-767236 20020719
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK		
CN 1507427	A	20040623	CN 2002-809390 20020719
JP 2004536140	T	20041202	JP 2003-515482 20020719
US 2004171866	A1	20040902	US 2004-484193 20040120
US 7122228	B2	20061017	
PRAI DE 2001-10135499	A	20010720	
WO 2002-EP8085	W	20020719	
OS MARPAT 138:145162			